

A B S T R A C T

CATALYST SYSTEMS FOR ETHYLENE OLIGOMERISATION TO LINEAR  
ALPHA OLEFINS

A catalyst system comprising:

- (a) one or more bisarylimino pyridine iron or cobalt catalysts;
- 5 (b) a first co-catalyst compound which is selected from aluminium alkyls, aluminoxanes, and mixtures thereof; and
- (c) a second co-catalyst compound which comprises one or more compounds of the formula  $ZnR'_2$  wherein each  $R'$ , which may be the same or different, is  
10 selected from hydrogen, optionally substituted  $C_1$ - $C_{20}$  hydrocarbyl, phenyl, Cl, Br, I,  $SR''$ ,  $NR''_2$ , OH,  $OR''$ , CN, NC wherein  $R''$ , which within the same molecule may be the same or different, is  $C_1$ - $C_{20}$  hydrocarbyl.